LISTING OF CLAIMS

Please amend the claims as follows:

1. (Original) A shoe comprising:

an upper, at least one active-response element, a sole coupled to the upper to define a chamber for receiving a wearer's foot, at least one sensor, and a controller operatively connected to said sensor and said active-response element,

wherein said controller determines whether the wearer is walking or swinging and when the wearer is swinging, said controller sends an output current to said active-response element and said active-response element changes said shoe from an initial state where the shoe exhibits a first set of characteristics to a transitory state where the shoe exhibits a second set of characteristics different from said first set of characteristics.

- (Original) The shoe of claim 1, wherein said output current is sent to said sensor, and said sensor sends said output current to said active-response element.
- (Original) The shoe of claim 1, wherein said active-response element comprises a sole adjuster, an upper adjuster, a tongue adjuster or a lace adjuster.
- (Original) The shoe of claim 1, wherein said controller sends said output current if said sensor senses a pressure greater than a preset swing threshold within a preset time interval threshold.
- 5. (Original) The shoe of claim 1, wherein said sensor is a pressure sensor that underlies the ball of the wearer's foot.
- 6. (Original) The shoe of claim 5, wherein the pressure sensor underlies the wearer's foot's fifth metatarsal head

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- (Original) The shoe of claim 4, wherein the swing threshold is between about 70 kPa to about 140 kPa.
- 8. (Original) The shoe of claim 7, wherein the swing threshold is about 100 kPa.
- 9. (Original) The shoe of claim 4, wherein the time interval threshold is about 0.5 second.
- 10. (Original) The shoe of claim 7, wherein the time interval threshold is about 0.5 second.
- (Original) The shoe of claim 1, wherein the first set of characteristics is indicative of walking.
- (Original) The shoe of claim 11, wherein the second set of characteristics is indicative of swinging.
- (Original) The shoe of claim 12, wherein during walking said sensor generates energy that is harvested.
- (Original) The shoe of claim 12, wherein during swinging the controller converts the harvested energy to said output current.
- 15. (Original) The shoe of claim 1, wherein the shoe is more stable when exhibiting the second set of characteristics than the first set of characteristics.
- 16. (Original) The shoe of claim 15, when exhibiting the second set of characteristics the wearer's foot is less movable relative to the shoe.
- 17. (Original) The shoe of claim 1, wherein the sole comprises at least two sensors, wherein the two sensors are located proximately under any two metatarsal heads.
- (Original) The shoe of claim 17, wherein the two sensors are spaced apart.

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- (Original) The shoe of claim 17, wherein one sensor is located under the fourth metatarsal bone and another sensor is located under the fifth metatarsal bone.
- (Original) The shoe of claim 17, wherein when the wearer is walking the at least two
 sensors sense pressure peaks at about the same time.
- (Original) The shoe of claim 17, wherein when the wearer is swinging the at least two
 sensors sense pressure peaks sequentially.
- (Original) The shoe of claim 1, wherein the at least one sensor is made of piezoelectric material.
- (Original) The shoe of claim 1, wherein the at least one sensor is made of an insulating polymer.
- 24. (Original) The shoe of claim 23, wherein the at least one sensor is made of a silicone or an acrylic elastomer.
- (Original) The shoe of claim 23, wherein the at least one sensor is made of polyurethane, fluorosilicone, fluoro-elastomer, polybutadiene or isoprene.
- 26. (Original) The shoe of claim 3, wherein the sole adjuster is positioned diagonally relative to the sole.
- 27. (Original) The shoe of claim 3, wherein the sole adjuster comprises two adjusters positioned diagonally relative to the sole and diagonally opposite from each other.
- 28. (Original) A shoe comprising an upper and a sole coupled to the upper to define a chamber for receiving a wearer's foot, wherein said shoe distinguishes whether the wearer is walking or swinging.

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 (Cancelled) A method of providing an active-response shoe comprising: providing a shoe with at least one sensor for sensing whether a wearer is walking or swinging;

providing said shoe with a controller operatively associated with said sensor; providing said shoe with at least one active-response element;

determining a first state when said sensor senses a pressure greater than a preset swing pressure within a time interval threshold and a second state when the sensed pressure is less than the present swing pressure or not within a time interval threshold; and

in the first state directing an output current to said active-response element to change the shoe from an initial state where the shoe exhibits a first set of characteristics to a transitory state where the shoe exhibits a different second set of characteristics.

- (Cancelled) The method of claim 29, further including the step of positioning the sensor under the ball of the wearer's foot.
- (Cancelled) The method of claim 29, further including the step of positioning the sensor under the fifth metatarsal bone.
- 32. (Cancelled) The method of claim 28, further including the step of harvesting the energy generated by the sensor during the second state.
- 33. (Cancelled) The method of claim 31, further including the step of using the harvested energy to generate the output current.
- 34. (Cancelled) The method of claim 28, wherein the time interval is less than about 0.5 second.
- (Cancelled) The method of claim 28, wherein the preset swing pressure is between about 70 kPa to about 140 kPa

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- 36. (Cancelled) The method of claim 33, wherein the preset swing pressure is about 100 kPa.
- (Cancelled) A method of providing an active-response shoe comprising: providing a shoe with at least two sensors for sensing whether a wearer is walking or swinging;

positioning the at least two sensors proximately under any two metatarsal bones; providing said shoe with a controller operatively associated with said sensors; providing said shoe with at least one active-response element;

determining a first state when said sensors sense pressures substantially at the same time and a second state when said sensors sense pressure sequentially;

in the second state directing an output current to said active-response element to change the shoe from an initial state where the shoe exhibits a first set of characteristics to a transitory state where the shoe exhibits a different second set of characteristics.

38. (Cancelled) The method of claim 36, further including the step of positioning the at least two sensors under the fourth and fifth metatarsal bones.